

Exploring the Extreme			
2006 Mathematics			
Program of Studies			
Kentucky Mathematics			
Grades K-3			
Activity/Lesson	State	Standards	
Finding the Center of Gravity Using Rulers	KY	MA.K-3.MA-P-M-S-MPA4	choose and use appropriate tools for specific measurement tasks
Finding the Center of Gravity Using Rulers	KY	MA.K-3.MA-P-DAP-U-4	inferences and predictions from data are used to make critical and informed decisions.
Finding the Center of Gravity Using Rulers	KY	MA.K-3.MA-P-DAP-U-5	probability can be used to make decisions or predictions or to draw conclusions.
Finding the Center of Gravity Using Rulers	KY	MA.K-3.MA-P-DAP-S-ES2	use data from student investigations to make predictions or draw simple conclusions
Finding the Center of Gravity Using Plumb Lines	KY	MA.K-3.MA-P-M-S-MPA4	choose and use appropriate tools for specific measurement tasks
Finding the Center of Gravity Using Plumb Lines	KY	MA.K-3.MA-P-DAP-U-4	inferences and predictions from data are used to make critical and informed decisions.
Finding the Center of Gravity Using Plumb Lines	KY	MA.K-3.MA-P-DAP-S-ES2	use data from student investigations to make predictions or draw simple conclusions
Changing the Center of Gravity Using Moment Arms	KY	MA.K-3.MA-P-M-S-MPA4	choose and use appropriate tools for specific measurement tasks
Changing the Center of Gravity Using Moment Arms	KY	MA.K-3.MA-P-DAP-U-4	inferences and predictions from data are used to make critical and informed decisions.
Changing the Center of Gravity Using Moment Arms	KY	MA.K-3.MA-P-DAP-S-ES2	use data from student investigations to make predictions or draw simple conclusions
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Grade 4			
Activity/Lesson	State	Standards	
Finding the Center of Gravity Using Rulers	KY	MA.4.MA-4-M-S-MPA7	choose and use appropriate tools (e.g., thermometer, scale, balance, clock, meter stick) for specific measurement tasks
Finding the Center of Gravity Using Rulers	KY	MA.4.MA-4-DAP-U-2	the collection, organization, interpretation and display of data can be used to answer questions.
Finding the Center of Gravity Using Rulers	KY	MA.4.MA-4-DAP-U-4	inferences and predictions from data are used to make critical and informed decisions.

Finding the Center of Gravity Using Plumb Lines	KY	MA.4.MA-4-DAP-U-4	inferences and predictions from data are used to make critical and informed decisions.
Changing the Center of Gravity Using Moment Arms	KY	MA.4.MA-4-M-S-MPA7	choose and use appropriate tools (e.g., thermometer, scale, balance, clock, meter stick) for specific measurement tasks
Changing the Center of Gravity Using Moment Arms	KY	MA.4.MA-4-DAP-U-2	the collection, organization, interpretation and display of data can be used to answer questions.
Changing the Center of Gravity Using Moment Arms	KY	MA.4.MA-4-DAP-U-4	inferences and predictions from data are used to make critical and informed decisions.
Changing the Center of Gravity Using Moment Arms	KY	MA.4.MA-4-DAP-S-ES1	pose questions and collect, organize, interpret and display data to answer them
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Grade 5			
Activity/Lesson	State	Standards	
Vectoring	KY	MA.5.MA-5-M-S-MPA1	measure and construct angles to the nearest degree
Vectoring	KY	MA.5.MA-5-DAP-U-2	the collection, organization, interpretation and display of data can be used to answer questions.
Vectoring	KY	MA.5.MA-5-DAP-U-4	inferences and predictions from data are used to make critical and informed decisions.
Vectoring	KY	MA.5.MA-5-DAP-S-DR3	pose questions and choose an appropriate method to collect, organize and display student-collected data to answer the questions
Vectoring	KY	MA.5.MA-5-DAP-S-CD1	draw conclusions and make predictions based on data
Vectoring	KY	MA.5.MA-5-DAP-S-ES1	pose questions and collect, organize, display and interpret data to answer the questions
Center of Gravity, Pitch, Yaw	KY	MA.5.MA-5-M-S-MPA4	choose and use appropriate tools (e.g., protractor, angle ruler, meter stick, ruler) for measurement tasks
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Grade 6			
Activity/Lesson	State	Standards	
Vectoring	KY	MA.6.MA-6-M-S-MPA4	estimate and find angle measures and segment measures

Vectoring	KY	MA.6.MA-6-DAP-U-2	the collection, organization, interpretation and display of data can be used to answer questions.
Vectoring	KY	MA.6.MA-6-DAP-U-4	inferences and predictions from data are used to make critical and informed decisions.
Vectoring	KY	MA.6.MA-6-DAP-S-ES1	pose questions; collect, organize and display data
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Grade 7			
Activity/Lesson	State	Standards	
Vectoring	KY	MA.7.MA-7-DAP-U-2	the collection, organization, interpretation and display of data can be used to answer questions.
Vectoring	KY	MA.7.MA-7-DAP-U-4	inferences and predictions from data are used to make critical and informed decisions.
Vectoring	KY	MA.7.MA-7-DAP-S-ES1	pose questions; collect, organize and display data
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Grade 8			
Activity/Lesson	State	Standards	
Vectoring	KY	MA.8.MA-8-DAP-U-2	the collection, organization, interpretation and display of data can be used to answer questions.
Vectoring	KY	MA.8.MA-8-DAP-U-4	inferences and predictions from data are used to make critical and informed decisions.
Fuel Efficiency	KY	MA.8.MA-8-G-S-CG1	identify and graph ordered pairs on a coordinate system, identifying the origin, axes and ordered pairs; apply graphing in the coordinate system to solve real-world problems
Fuel Efficiency	KY	MA.8.MA-8-DAP-S-CD2	make predictions, draw conclusions and verify results from statistical data and probability experiments, making use of technology as appropriate
Fuel Efficiency	KY	MA.8.MA-8-DAP-S-CD5	explore how statistics can be interpreted in many ways
Fuel Efficiency	KY	MA.8.MA-8-AT-S-VEO2	given a formula, substitute appropriate elements from a real-world or mathematical situation